

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 10136615
PUBLICATION DATE : 22-05-98

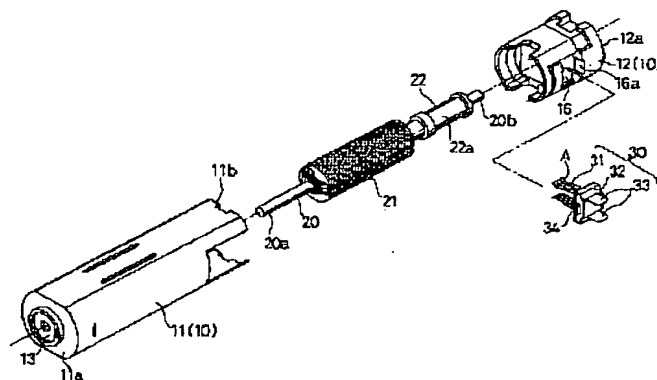
APPLICATION DATE : 31-10-96
APPLICATION NUMBER : 08290219

APPLICANT : COPAL CO LTD;

INVENTOR : TAKAHASHI ATSUNORI;

INT.CL. : H02K 13/00 H02K 5/14

TITLE : DC MOTOR



ABSTRACT : PROBLEM TO BE SOLVED: To provide size reduction of a DC motor easily by fixing a pair of elastic brushes at a brush retaining block, extending it toward a commutator, and elastically-clamping the peripheral surfaces of the commutator.

SOLUTION: When a brush element 30 is inserted into a brush accommodating hole 16 from elastic brush piece 31 side, a pair of elastic brush pieces 31 are advanced toward a commutator 22 inside the brush accommodating hole 16. Front ends 31a of a pair of elastic brush pieces 31 are guiding parts A bent outwards. As a result, when a pair of elastic brush pieces 31 advances inside the brush accommodating hole 16 and are brought into contact with the commutator 22, the elastic brush pieces 31, to the outsides of which force is given by the guide parts A, are pushed open along the peripheral surface 22 of the commutator 22, and are introduced on both sides of the commutator 22. Under this condition, a brush-retaining block 32 is press-fitted into the brush accommodating hole 16 to be fixed. When current is given to a terminal part 33 from the outside, a rotor-rotating shaft 20 rotates, and the commutator 22 is brought into sliding contact with a pair of elastic brush pieces 31.

COPYRIGHT: (C)1998,JPO